

CLAIMS

What is claimed is:

1. An electronic musical instrument comprising:
tempo setting means for setting a tempo;
input means for inputting musical tones;
musical tone storage means for storing sequentially at a specified sampling period the musical tones that have been input by the input means;
time information storage means for storing, in conformance with a timing that corresponds to the tempo that has been set by the tempo setting means, time information for the musical tones stored in the musical tone storage means; and
readout start means for readout of the musical tones stored in the musical tone storage means based on the time information stored in the time information storage means.
2. The electronic musical instrument of Claim 1, wherein the readout start means includes
storage address acquisition means for acquiring a storage address that corresponds to the time information of the musical tones based on the time information stored in the time information storage means and the sampling period, wherein
the readout of the musical tones that have been stored in the musical tone storage means is started based on the storage address acquired by the storage address acquisition means.

3. The electronic musical instrument of Claim 2, further comprising instruction means for instructing acquisition of the storage address by the storage address acquisition means, and

wherein the storage address acquisition means acquires the storage address that corresponds to the time information for the musical tones when the instruction means instructs acquisition of the storage address based on instruction time information acquired in conformance with a timing of the instruction, the storage address that corresponds to the instruction time information, the time information stored in the time information storage means, and the sampling period.

4. The electronic musical instrument of Claim 2, further comprising a saving means for saving, in units based on the storage address acquired by the storage address acquisition means, the musical tones that are stored in the musical tone storage means.

5. An electronic musical instrument comprising:
tempo setting means for setting a tempo;
input means for inputting musical tones;
musical tone storage means for sequentially storing at a specified sampling period the musical tones that have been input by the input means ;
address storage means for storing, in conformance with a timing that corresponds to the tempo that has been set by the tempo setting means, the storage address of the musical tone that is stored in the musical tone storage means; and
readout start means for readout of the musical tones stored in the musical tone storage means based on the address stored in the address storage means.

6. The electronic musical instrument of Claim 5, further comprising saving means for saving, in units based on the storage address stored in the address storage means, the musical tones stored in the musical tone storage means.

7. The electronic musical instrument of Claim 5, further comprising waveform display means for displaying waveforms of the musical tones input by the previously mentioned input means; and timing display for displaying, at a position that corresponds to the timing that conforms to the tempo that has been set in the tempo setting means, the waveforms of the musical tones displayed by the waveform display means.

8. The electronic musical instrument cited of Claim 5, wherein the timing that corresponds to the tempo that has been set by the tempo setting means is a beat.

9. The electronic musical instrument of Claim 5, wherein the timing that corresponds to the tempo that has been set by the tempo setting means is a bar.

10. The electronic musical instrument of Claim 5, further comprising reporting means for reporting the timing that corresponds to the tempo that has been set by the tempo setting means.

11. The electronic musical instrument of Claim 10, wherein the reporting means reads performance data and automatically performs in conformance with the tempo that is set by the tempo setting means.

12. The electronic musical instrument cited in Claim 3 further comprising a saving means for saving, in units based on the storage address acquired by the storage address acquisition means, the musical tones that are stored in the musical tone storage means.

13. The electronic musical instrument of Claim 1, further comprising waveform display means for displaying waveforms of the musical tones input by the previously mentioned input means; and timing display for displaying, at a position that corresponds to the timing that conforms to the tempo that has been set in the tempo setting means, the waveforms of the musical tones displayed by the waveform display means.

14. The electronic musical instrument cited of Claim 1, wherein the timing that corresponds to the tempo that has been set by the tempo setting means is a beat.

15. The electronic musical instrument of Claim 1, wherein the timing that corresponds to the tempo that has been set by the tempo setting means is a bar.

16. The electronic musical instrument of Claim 1, further comprising reporting means for reporting the timing that corresponds to the tempo that has been set by the tempo setting means.

17. An electronic musical instrument comprising:
a tempo controller for recording a tempo;
an input device for accepting a sequence of musical note data;
a storage device for storing the sequence of musical note data; and
a processor for writing the sequence of musical note data to the storage device, reading the sequence of musical note data from the storage device, and processing the sequence of musical note data,
wherein the processor processes the sequence of musical note data stored in the storage device at a timing consistent with the tempo recorded by the tempo controller.

18. The electronic musical instrument of Claim 17, wherein the processor correlates an address of the storage device containing the musical noted data with the timing consistent with the tempo.

19. The electronic musical instrument of Claim 18, further comprising an adjuster for adjusting a time between a beginning of the sequence of musical note data and an end of the sequence of musical note data.

20. The electronic musical instrument of Claim 19, wherein the processor correlates an address of a beginning of an adjusted sequence of musical note data with the timing consistent with the tempo.

21. The electronic musical instrument of Claim 17, further comprising a tone generator for converting the sequence of musical note data into musical tones.

22. The electronic musical instrument of Claim 17, wherein the timing consistent with the tempo is a bar.

23. The electronic musical instrument of Claim 17, wherein the timing consistent with the tempo is a beat.

24. The electronic musical instrument of Claim 19, wherein the adjuster shortens the time between the beginning of the sequence of musical note data and the end of the sequence of musical note data.

25. The electronic musical instrument of Claim 19, wherein the adjuster lengthens the time between the beginning of the sequence of musical note data and the end of the sequence of musical note data.

26. The electronic musical instrument of Claim 17, wherein the input device is a keyboard.

27. A method of processing a sequence of musical note data comprising:
recording a tempo;
accepting the sequence of musical note data;
storing the sequence of musical note data;
writing the sequence of musical note data to the storage device;
reading the sequence of musical note data from the storage device; and
processing the sequence of musical note data,
wherein the sequence of musical note data stored in the storage device is processed at a timing consistent with the tempo.
28. The method of Claim 27, wherein an address of the storage device containing the musical noted data is correlated with the timing consistent with the tempo.
29. The method of Claim 28, further comprising adjusting a time between a beginning of the sequence of musical note data and an end of the sequence of musical note data.
30. The method of Claim 29, wherein an address of a beginning of an adjusted sequence of musical note data is correlated with the timing consistent with the tempo.
31. The method of Claim 27, further comprising converting the sequence of musical note data into musical tones.
32. The method of Claim 27, wherein the timing consistent with the tempo is a bar.
33. The method of Claim 27, wherein the timing consistent with the tempo is a beat.
34. The method of Claim 29, wherein the time between the beginning of the sequence of musical note data and the end of the sequence of musical note data is shortened.
35. The method of Claim 29, wherein the time between the beginning of the sequence of musical note data and the end of the sequence of musical note data is lengthened.

36. The method of Claim 27, wherein the input device is a keyboard.
37. An electronic musical instrument comprising:
means for recording a tempo;
means for accepting the sequence of musical note data;
means for storing the sequence of musical note data;
means for writing the sequence of musical note data to the storage device;
means for reading the sequence of musical note data from the storage device; and
means for processing the sequence of musical note data,
wherein the sequence of musical note data stored in the storage device is processed at a
timing consistent with the tempo.